

**BOMBER . . . . . B-52 E**

**"STATOFORTRESS"** **BOEING**

Wing Area . . . . .	4000 sq ft	Length . . . . .	156.5 ft
Span . . . . .	185.0 ft	Height (overall) . . . . .	48.3 ft
		Height (fin folded) . . . . .	21.5 ft

A V A I L A B I L I T Y			P R O C U R E M E N T			
Number available			Number to be delivered in fiscal years			
ACTIVE	RESERVE	TOTAL				

1. Design initiated: May 53
2. First flight: Nov 57
3. First delivery to SAC: Dec 57
4. The B-52E airplane is similar to the B-52D except for change in bombing-navigational system. The B-52E utilizes the ASB-4 system which is effective on the 259th production B-52

Mfr's Model: 464-259

(8) J57-P-19W or 29WA  
Pratt & Whitney  
ENGINE RATINGS

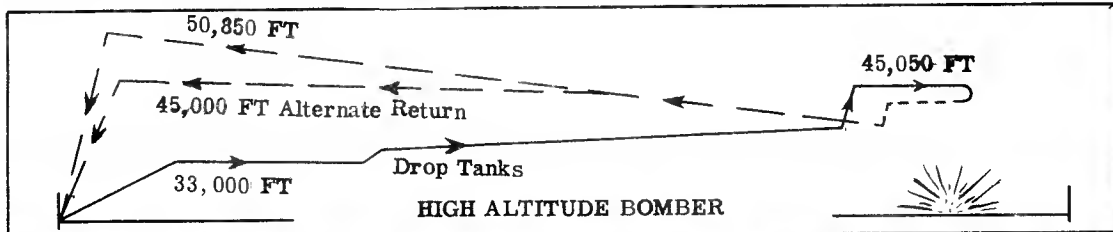
S.L.S	LB	**RPM	-MIN
Max:	*12,100	6450/9900	-5
Mil:	10,500	6150/9900	-30
Nor:	9000	5900/9650	-

Cont

Crew	6
Cabin pressurization, heating and cooling	
Braking parachute	
Quadricycle landing gear	
Aerodynamic spoilers (air- brake)	
Strike camera station	
AN/ASB-4 bombing-navig system	
MD-9 fire control system	
Folding fin	
Engine-driven alternators & hydraulic packs	
Liquid oxygen system	
Crosswind landing gear	

Turret .....	1
Guns .... 4 x .50 cal (M-3)	
Ammunition (tot) ..	2400 rds
<b>BOMBS:</b>	
Nr	Class (lb)
New Series	
27(Family of Clusters),1000	
Special Weapons	
2 .....	MK21
2 .....	MK15

**Note: Structural provisions  
for 50,000 lb bomb;  
airplane will carry  
4 ADM-20 and  
2 AGM-28 missiles**

*Characteristics Summary Basic Mission* ..... B-52 E**P E R F O R M A N C E**

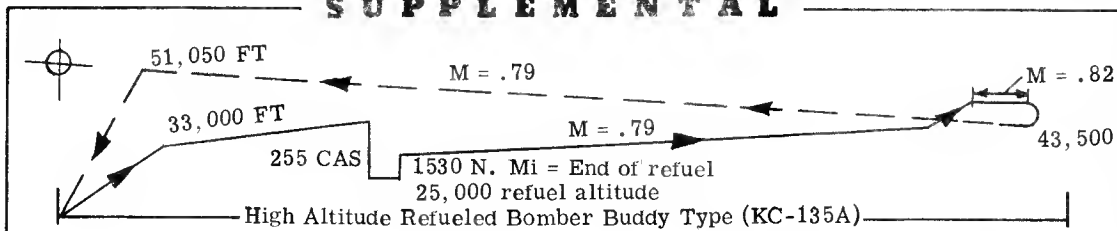
<b>COMBAT RADIUS</b>	<b>FERRY RANGE</b>	<b>S P E E D</b>
3320 naut. mi with 10,000 lb payload at 453 knots avg. in 14.73 hours.	6842 naut. mi with 41,550 gal fuel. at 453 knots avg. in 15.14 hours (c) at 442,165 lb T.O. wt.	COMBAT 495 knots at 45,050 ft alt, max power MAX 551 <sup>(d)</sup> knots at 20,200 ft alt, max power BASIC 520 knots at 35,000 ft alt, max power
<b>C L I M B</b>	<b>C E I L I N G</b>	<b>T A K E - O F F</b>
2225 fpm sea level, take-off weight normal power	37,550 ft 100 fpm, take-off weight normal power	ground run 8000 ft no assist
5310 fpm sea level, combat weight military power	46,350 ft 500 fpm, combat weight military power	over 50 ft height 10,300 ft no assist
<b>L O A D</b>	<b>W E I G H T S</b>	<b>S T A L L I N G S P E E D</b>
Bombs: 10,000 lb Ammunition: 2400 rds/.50 cal	Empty..... 163,752 lb Combat... 282,600 lb (b) Take - off 450,000 lb limited by structure	147 knots, initial buffet power-off, landing config- uration, take-off weight
Fuel: 41,217 gal protected 61.6 % droppable 14.4 % external 14.4 %		<b>T I M E T O C L I M B</b> 21.5 min to cruise altitude of 33,000 ft

**N O T E S**

- Performance Basis:
  - Data Source: Flight tests
  - Excludes 2500 lb water
  - Limited by fuel capacity
  - Limited by structure
  - O.W.E. increases approximately 2000 lb on B-52 airplanes utilizing the J57-P-29WA engines resulting in a minor range decrease for a given T.O. weight.
- Performance Reference: Boeing Document D-15134B "Substantiating Data Report - Models B-52B (-19W engines), B-52C and B-52D Standard Aircraft Characteristics Charts", 14 May 1957.
- Revision Basis: To include "Buddy Type" refueling mission.

*Characteristics Summary Basic Mission*

B-52 E

**S U P P L E M E N T A L****P E R F O R M A N C E**

<b>COMBAT RADIUS</b>	<b>FERRY RANGE</b>	<b>S P E E D</b>
4218 naut. mi with 10,000 lb payload at 460 knots avg. in 21.2 hours.	_____ naut. mi with _____ gal fuel at _____ knots avg. in _____ hours at _____ lb T.O. wt.	COMBAT 486 knots at 43,500 ft alt, mil power MAX 551 <sup>(C)</sup> knots at 20,200 ft alt, mil power BASIC 518 knots at 35,000 ft alt, mil power
<b>C L I M B</b>	<b>C F I L I N G</b>	<b>T A K E - O F F</b>
2100 fpm sea level, take-off weight normal power	38,800 ft 100 fpm, take-off weight normal power	ground run 8000 ft no assist
4600 fpm sea level, combat weight military power	43,900 ft 500 fpm, combat weight military power	over 50 ft height 10,300 ft no assist
<b>L O A D</b>	<b>W E I G H T S</b>	<b>S T A L L I N G S P E E D</b>
Bombs: 10,000 lb Ammunition: 2400 rds/.50 cal	Empty..... 163,752 lb Combat... 320,000 lb (b) Take - off 450,000 lb limited by structure	147 Knots, initial buffet power-off, landing config- uration, take-off weight
Fuel: 41,217 gal protected 61.6 % droppable 14.4 % external 14.4 % Density: JP-4 lb/gal (6.5)		<b>T I M E T O C L I M B</b> 21.5 min to cruise altitude of 33,000 ft.

**N O T E S**

## 1. Performance Basis:

- (a) Data Source: Flight Tests
- (b) Excludes 2500 lb water
- (c) Limited by structure
- (d) O.W.E. increases approximately 2000 lb on B-52 airplanes utilizing the J57-P-29WA engines resulting in a minor range decrease for a given T.O. weight.

## 2. Revision Basis: To include "Buddy Type" refuel mission.

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UNCLASSIFIED

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